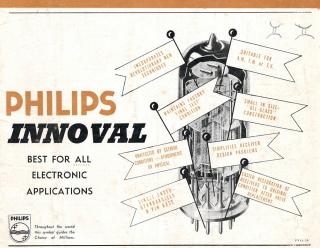
# AMATEUR OCTOBER 1950 RADIO

JOURNAL OF THE WIRELESS INSTITUTE OF AUSTRALIA





FOR THE EXPERIMENTER & RADIO ENTHUSIAST

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## AMATEUR RADIO

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#### EDITORIAL

\*

The rapid post-war increase in the number of licenced Amateurs has reduced the elbow room available for operation on restricted bands when conditions are good.

The "Gentlemen's Agreement," providing for voluntary reservation of portion of each band for c.w. operation, was promoted by your Federal Council with a view to giving c.w. operators a channel comparatively success of any plan of this nature depends upon the whole-hearted co-operation of the individual. Hence the success of the present plan rests with YOU and every other active Operator.

The major QRM problems in each and every band are created by:—
"Inane Earbashing." "Splatter," and "Poor Operating Techniques."

"Inane Earbashing" we will leave to the conscience of the individuals concerned—perhaps when the housing shortage is overcome the aforesaid earbashers will be able to lean on the dividing fence once more.

"Splatter" can be avoided if every law abiding Amateur makes proper use of the monitor demanded by the conditions of his "Station Licence;" therefore no excuses should be proffered or accepted for such offences.

"Poor Operating Technique" is only excusable if the offender is a newcomer to our ranks; however, observation indicates that the chief

offenders in this direction are experienced operators or the swaggering type, who satisfy their ego by adopting irregular and individual procedures, which are in many cases in sately some of the younger members who join the Amateur ranks are apto adopt this slap happy style rather than the more sober procedure denilyment of our hobby.

Federal Executive suggests that in order to promote goodwill and good operating, instead of advocating return to the "probationary period on c.w." (which can never be justified on technical grounds) each and every Amateur should:—

- Make a point of getting to know personally each of the new licencees (Radio Amateur type) in his district.
- Help all newcomers along the road to good operating instead of shunning them as if they were interlopers in our ranks merely because of slowness on the key or hesitancy in hone procedure.
- If unable to help your neighbour solve his technical problem, introduce him to someone who can do so.
- Practice the Amateur Code.

Let's make goodwill and good operating a certainty by adopting a co-operative attitude towards all fellow Amateurs, old and new alike. FEDERAL EXECUTIVE

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#### LOGARITHMIC COMPRESSOR

Aids in Preventing Overmodulation While Increasing Signal Effectiveness

Every phone man, at some time in his QRM-ridden life, has wished that he had a small switch available which would permit him magically to increase his power tenfold. This would be Utopia—from one kilowatt to ten kilowatts by pressing a button.

This button is now available, and it is mounted on the front of the Logarithmic Compressor. This unit will give an effective signal gain which is adjustable from a few db up to as much as ten

db (ten to one in power).

The Logarithmic Compressor is an audio amplifier device which is inserted between your microphone and your present speech amplifier. Its function is to push up the average modulation level, with the result that high percentage modulation is assured at all times, regardless of the sound level reaching the microphone.

COMPRESSION VERSUS CLIPPING
Those familiar with clippers or clip-

ping circuits can see that the Logarithmic Compressor is intended to do the same sort of Job as a clipper. There is, however, an important difference between logarithmic compression as used in the Logarithmic Compressor and clipping. Fig. 2 compares the characteristics of

Fig. 2 compares the characteristics of the two different systems. In either case the input wave suffers distortion, but the distortion caused by the clipping action of the ordinary diode type clipper (Fig. 2B) is worse for a given amount of signal compression than that caused by the logarithmic compression of a copper-oxide instrument rectifier (Fig. 2A).

Distortion present in either circuit will add "harshness" to speech signals and without further treatment would result in excessively broad signals. Therefore, in excessively broad signals. Therefore, to the signal of the sign

The advantage of the logarithmic compression system is that the distortion is less severe (for a given amount of compression) than the clipper type, and this makes possible the use of a vastly simpler filter arrangement. Three "stages" of R-C type filtering used in effective as more elaborate sharp-cutoff types of L-C filter virtually necessary with the clipper type of circuit.

Further, the transient response of the R-C type filter is such that no overshot of signal peaks can occur. This is not the case with sharp-cutoff L-C filters. This means that the logarithmic compressor circuit with a properly designed R-C filter is superior to the ordinary

FEATURES—

• Provides 10 db increased effec-

- tiveness;

  Uses self-contained speech-range filter:
- Three tubes, including rectifier;
- Small size—space saving.

In keeping with our policy of re-printing worthwhile articles from overseas publications, we present the following article in G.E. "Ham Hints," May-June, 1950. For those Hams who possess a

For those Hams who possess a modulator and speech amplifier, but desire the advantages of speech clipping, this unit will enable them to obtain the advantage of clipping without pulling their present gear about, as it is simply inserted between the microphone and pre-amplifier.

The 12AT high-mu twin triodes

The I2ATI high-mu twin triodes specified are at present difficult to obtain in Australia, but we understand they will be obtainable soon. The nearest equivalent is the SSLT, and we would like to know how this circuit works out with these valves so that the information can be passed on to our readers.

clipper circuit followed by a sharp L-C filter. Repeated tests confirm this statement.

#### CIRCUIT DETAILS

With reference to Fig. 3 it will be seen that the first 12AT7 acts as a two stage audio amplifier to bring the signal from the microphone to a sufficient level so that the compression circuit itself operates at the proper level. Resistor R1 in the first stage has been added as a precaution against r.f. feedback.



Fig. 1.—The Logarithmic Compressor ready to plug into your present microphone jack. Controls are, left to right, in-out switch, compression control, output control and a.c. on-off switch. Special care has been taken to attenuate low audio frequencies prior to compression. Doing this gives a University of the Compression being the property of the Compression between the low bearing high spech frequencies. The values of condensers C2, C3, and C4 are adequately before speech compression. Condensers C7 and C9 serve the same place.

Resistor R4, by varying the signal input to the second section of the first 12AT7, enables control of the amount of compression.

The audio transformer, T1, is necessary because the limiting circuit must be fed by a low-impedance, low-resistance source. Using the centre tap on this transformer, accomplishes this function.

The actual limiting or compression circuit consists only of R7 and W, the latter being two sections of a copyed to the consistency of the consiste

The output tube is required for two proposes. It is necessary to present the propose in the prop

to be switched in and out of the circuit easily. Note that shielded wire is specified for the connections to this switch. The output itself is carried by a shielded lead which plugs into the mike jack of any speech amplifier designed to handle a high impedance dynamic or crystal microphone.

The power supply is conventional in all respects. Because of the low current drain on the power supply a resistor-capacitor filter is employed. Resistor R18 and condenser C11 provide decoupling and additional filtering for the first 12ATT section plate voltage.

The connections indicated by the heavy black lines in the power supply section should all be made to one ground point. This will prevent the chassis from carrying the circulating capacitor current and help to keep the unit hum-

#### CONSTRUCTIONAL DETAILS

As may be seen from the photograph, the entire unit, including power supply, is mounted on a 5 by 7 by 2 inch chassis. While the layout is not critical, it is advisable to keep the power supply portion of the circuit as far away from the rest of the circuit as possible. The

layout shown is quite satisfactory.
With reference to Fig. 1, the front panel layout, from left to right, is: mike jack, output lead, in-out switch, compression control, output level control, AC on-off switch and AC cord. The tubes are, left to right, input 12AT7, output 12AT7 and TATS rectifies. Note that the state of the switch and the switch switch switch and the switch switch

possible.

The wiring can be made simpler if the unused leads from the power transformer are pulled inside the transformer case and securely taped to avoid shorts. This was done with the 2.5 volt and the

5.0 volt windings.

The unit pictured uses a bottom cover plate for the chassis. This is recommended to avoid RF feedback. Any sort of thin metal will serve for this purpose, if your chassis comes without a bottom plate.

#### COMPONENT PARTS While no extremely critical values are

required, it is recommended that the specified values be used in all cases. For example, C2 and C7 are specified as 1.0 uP. condensers. If lower values were to be used, the frequency response would suffer, and if higher values were used, the result would be insufficient low-frequency attenuation.

Almost any sort of push-pull plates

Almost any sort of push-pull plates to voice coil transformer will serve as T1. Wattage rating of this transformer is not important.

If possible, linear taper potentiometers should be used at R4 and R12. This sort of taper will give a smoother action

sort of taper will give a smoother action than other types of taper. Care must be taken in purchasing the limiter rectifier, W, because instrument rectifiers come in several different

rectiners come in several different styles. Basically, of course, they are used to make AC meters out of DC meters. However, they can be purchased as half-wave units, doubler units, fullwave units and bridge units. Two separate half-wave units, con-

nected as shown, will work, and the bridge-rectifier style will work if the proper leads are used. The "full-wave" unit will not serve because the two dlode sections are connected improperly. In the doubler type rectifier the two full rectifier the two first and the section of the section of the Figs. 2 and 3 and therefore this type of instrument rectifier would be the best to use.

#### The adjustment of the Logarithmic

Compressor is done very easily. Plug in a mike and place the in-out switch, S2, in the "out" position so that the microphone is connected directly to your speech amplifier, then follow these three

 Adjust the audio gain control on the transmitter for normal modulation as seen on an osailloscope (the best method) or some other instrument worthy of trust. Transfer Characteristics of Back-to-Back Copper Oxide Instrument



Transfer Characteristics of Usual Diode Clipper Circuit



Fig. 2.—A comparison between the output waveform of a Logarithmic Compressor and a diode clipper.

• Put the output control on the unit to zero and set the compression control so that it is about half open. Switch the compressor to "in" and advance the output control while speaking into the microphone until the peak modulation is the same as in step 1. While an oscilloscope is not absolutely necessary in order to make this adjustment, it is strongly recommended.

 Adjust the compression control so that the average plate current in the modulator stage on a sustained "00000 —0" is, say, not over twice that obtained with the compression coul. Then try CGOs is on the best operating point of the compression control for the microphone you are using and the receiving conditions prevalent at the other fellows QTH.

#### USE OF THE COMPRESSOR

With the Logarithmic Compressor in use the modulator tubes are required to handle much more average power than usual. In fact, it is possible that your modulator stage will not be capable of handling the extra average yower required. Careful checking with an oscilloscope will determine if this is the case.

As a general rule, if your modulator can handle a sine wave signal at 100% modulation, then the average power capability of your modulator is adecupability of your modulator is adecupable of the sine of the sin

In operation the compressor must be used with judgment—good judgment that is. Too much compression may make an otherwise acceptable signal almost intolerable. With a judiclous amount of compression one can expect 10 db (10 to 1 in power) in the effective-

## Department of EXTERNAL AFFAIRS

## ANTARCTIC DIVISION SUPERVISING TECHNICIAN (RADIO-RADAR) GRADE I.

Wanted, Supervising Technician (Radio-Radar) Grade I. for each of the Scientific Stations at Heard and Macquarie Islands. Salary range £612 to £666 plus special hardship allowance. Clothing, food and amenities provided. of stay approximately twelve months. Applicants should possess an appropriate University degree or technical diploma and should have a thorough knowledge of practical electronics. They will be required to service and maintain radio and radar equipment and radiosonde transmitters and re-ceivers, and will also be required to act as senior wireless telegraphists. The appointee to Macquarie Island will be required to operate ionospheric equipment and take an interest in this branch of research. Applicants must be young and healthy and interested in outdoor activities such as walking, ski-ing, mountaineering, etc. Full details on application to the Officer-in-Charge, Antarctic Div-ision, Albert Park Barracks, St. Kilda, S.C.3, Victoria.

—————

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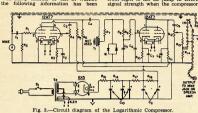
and Macquarie Islands.
Salary range £582 to £576 plus special hardship allowance. Ciothing, food and amenities provided twelve months. Applicants should be fully qualified and must be young, healthy, and interested in ski-nig, mountaineering, etc. Full details on application to the Officer-in-Charge, Market Division, Albert Park albracks, St. Ritla, S.C.3, Victoria.

ness of his signal provided conditions at the receiving point are such that understandability without the compressor is impaired by QRM or high background noise

RESULTS WITH THE COMPRESSOR In many months of test at W2KUJ

obtained. Nearby stations, or stations not experiencing QRM, prefer that the compressor not be used. Stations receiving a weak signal or listening through severe QRM prefer that the compressor

be used Reports from the latter stations range from eight to ten db jump in effective signal strength when the compressor is



CIRCUIT CONSTANTS

C1, C9-0.01 uF. 400 volt paper or mica C2, C7-1.0 uF. paper (see text)

C2, C7—1.0 uF, paper (see t C3—1000 pF, mica. C4—0.05 uF, 400 volt paper. C5—1000 pF, ±10% mica. C8—0.05 uF, ±10% mica. C8—0.005 uF, ±10% mica.

C10-16 uF. 450 volt electrolytics (see text) C11—8 uF. 450 volt electrolytics. R1, R14—10,000 ohm, † watt.

R2-10 megohm, 1 watt. R3, R10-470 ohm, } watt. R4-0.5 megohm potentiometer. R5-0.1 megohm, 1 watt. R6, R11-47,000 ohm, 1 watt.

(All resistors and capacitors ± 20% tolerance unless specified otherwise.) R7-47,000 ohm, ½ watt.

R8—56,000 ohm, ±10%, ½ watt. R9—0.56 megohm, ±10%, ½ watt. R12-0.1 megohm potentiometer. R13-0.47 megohm, 1 watt. R15-470 ohm, 2 watts. R16-2,200 ohm. 2 watt R17-1,000 ohm, 1 watt. R18-4700 ohm, 1 watt. S1-SPST toggle switch

-SPDT toggle switch. T1-Push-pull plates to voice coil audio transformer (see text)

T2—Power transformer, 300-0-300 volts at 50 mils., 6.3 volts at 2 amp. W—Copper-oxide instrument rectifier (see text).

switched in. Reports from nearby sta-tions are that the signal is louder, but somewhat less readable with the compressor in use than without it.

In no case has a report been given that the signal was broader when the compressor was used, even when this question was asked of nearby stations.

Tests made at W2RYT's shack indicate that different microphones give somewhat different results when used with the compressor. For example, an Electro-Voice Model 605 dynamic mike and an Electro-Voice Model 915 crystal mike seemed to have identical speech characteristics (although the dynamic mike had less output) when used without the compressor

When used with the compressor, the dynamic mike was found to have a speech quality which was less harsh than that of the crystal mike. Further, it was found advisable to advance the compression control with the dynamic mike

The foregoing is not intended as a recommendation for dynamic mikes, nor is it intended as an authoritative comparison between two Electro-Voice microphones. The comparison has been made to emphasise the importance of testing your compressor carefully with each microphone you may use with it

In summary, one can expect to boost the effectiveness of his signal when it is needed most by use of the compressor (it frequently means the difference between making a contact or not) with some decrease in ease of reading the signal where the compressor is not needed.

Bear in mind that the compressor can be misused (to your disadvantage). Seek honestly to find the operating points which best exploit its use. In many cases it is best to not use the compressor. But in those cases where it is needed the Logarithmic Compressor can really do a job for you.

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#### **Extracting the Watts**

BY E. A. CHARLES.\* VK5YO

With the receiver problem out of the way (August "AR"), thoughts turn to the transmitter and voptu efficiency. There are many vays of feeding various affect the matching of the transmission line to the antenna. This is a most necessary pre-requisite to efficiently using that the antenna system only is doing the radiating. However, the usual autena tuner has been left in its pre-for both series and parallel tuned feeders.

The usual antenna tuner was constructed on similar physical lines to the final p.a. tank. The Amateur was not concerned with loss of fidelity due to attenuation of high frequencies—side-band cutting. A high impedance tank was required for voltage-fed resonant lines for Zepp fed aerials and multi-band operation.

With the introduction of low impedance, un-tuned, non-resonant lines, the way out was to feed them by either way out was to feed them by either or by inductively (link); coupling the transmission line. More often, an astenna tuner was not considered, if, the final tank, it "loaded." If it didn't, the final tank, it "loaded." If it didn't, the coupling was increased until it did "load," or, the new serial (or transmission) was immediately condemned!

With the availability of 300 ohm twin lead, or the economy and free-from-weather-effect of home-constructed 300 ohm transmission line, its flexibility makes it a natural choice. It has low

o 193 Young Street, North Unley, S.A.

losses, freedom from radiation, and freedom from unbalance due to proximity of grounded objects. So, you leave tuned feeders and full-wave Zepps to the countryman, the old-timers and experimenters like the VKS "Umbrella-Man," putting your antenna system, whatever it may be, wherever most suitable, without any worries where the feed line must go.

Now, let us see what else is required. The object is to draw power from the pa. and put all possible into the antenna (again remembering that only when the line is matched to the antenna feed-point impedance will all that power go into the antenna). In addition, we also desire.

- (a) The most efficient transfer of power;
   (b) Absence of b.c.l. interference;
- (c) Absence of harmonic radiation (and t.v.i.); (d) If possible, multi-band opera-
- (d) If possible, multi-band operation.

With the transmitter itself properly larmed, (b) and (c) are taken care of the properly larmed, (b) and (c) are taken care of the properly larmed, (c) and (c) are taken care of the properly larmed to the pr

The reason for the figure 75 ohm, is because the interna tuner is a parallel-tuned two turn coil (2" inside diameter, the control of the property of a 1:2 turns/voltage step-up transformer; which is a 1:4 impedance step-up. Four times 75 equals 300—right on the beam for our 300 ohm line.

For plate-modulated phone, a parank with a loaded Q of 12 is desirable. An optimum practical coefficient of coupling of 0.09 makes the antenna tuner with a loaded Q of 10, so for parallel resonance, the capacity required equals:  $C = \frac{Q}{2 \times f_R}$ . Remembering, again, only where our antenna is matched to the line (which now behaves as

again, only where our antenna is matched to the line (which now behaves as a purely resistive load at the operating frequency—300 chms).

The capacities in circuit to resonate

our antenna tuner with parallel tuning are:—
Ten Metre Band 100 pF. approx. Twenty Metres 350 pF. approx. Forty Metres 900 pF. approx.

Forty Metres 900 pF, approx. Since it is a low-voltage tank, a receiving type condenser will be satisfactory—a 0,000 usual hc. type is OK. One that can be mounted with expensive plates to earth is preferred. For tuning forty metres, a 0,0005 fixed condenser in parallel is required for forty metres can be series-tuned by having a cappain of the condense of the condense with one for the 300 fixed to the condense with one leg or the 300 of mile—the

parallel capacity out of circuit).

The capacities are given as approximate, as they will depend, in actual working conditions, on the extra amount of inductance present in the circuit from the coil to the condenser. The parallel capacity will usually be a small percentage less. However, if the anyou haven't remembered! Or, if you have, you haven't done anything about matching the line to the antenna—you with a twin-lamp. This So get to yourk with a twin-lamp.

Assuming you have a low S.W.R., you will find that you will have the same or a little better line current as when using the high L/C type antenna tuner. After all that was really like putting in a power transformer when all that was required was a 2.5v. to 6.3v. autotransformer.

To refresh your memories, the line current to be expected is calculated from  $P=1^2R$ , where R is your line Z when flat. So, if you are running forty odd watts to an 807, then an output of 30 watts is pretty good, giving 0.32 Amp in the 300 ohm flat line to the antenna.

$$\left(I = \sqrt[3]{\frac{P}{R}}\right)$$

For you 100 watt men, unmodulated line current of 0.5 Amp. is the order of the day. If you have any more on an accurate RF meter, it means either (a) you have standing waves, or (b) the R.I. is away on annual leave!

Put up a folded dipole for each band desired, you know that is well matched.



#### Abstracts from Overseas Magazines

R.S.G.B. "BULLETIN," APRIL, 1950 P. 332: "The Design of Tank Circuits of Constant Q:" R. W. Rogers, G6YR.—How to pick L/C ratios and match impedances of names available. and match impedances of power amplifiers.

P. 338: "A 28 Mc. Communication Receiver from the R1132A;" H. E. Smith, Gold Generation;" E. Willis, G60U.—To avoid TVI, operates VFO on 28 Megacycles.
P. 338: "Determination of Meter Resistance;" Hughes.
9. Hughes.
9. 139: "A Simple S Meter for the BC348;"
J. Bayliss, GSPD.
9. 340: "In the Workshop."—Files and filing, bears and tin snips. Cutting large holes. Drilling

"SHORT WAVE NEWS," APRIL, 1950 P. 92: "A Communication Receiver from the R1132A;" P. Lamb. P. 97: "Seventy Centimetres, Part III.;"—Super

"SHORT WAVE MAGAZINE." APRIL. 1950 P. 98: "Two Metres with Three Valves;" G. Elliot, G3FMO.—68N7 harmonic c.o. and tripler, QVO4/7 doubler, 832 final. Good sketches of physical layout.

"Screen Control Modulator;" H. J. ach, GNBO.—Economic sever modulation, P. 108: "Voice Switching Circuit;" A. Knight, BNX.—Circuit for voice operate breakin, P. 112: "Modulation Level indicator;" H. Barnett, AlQ.—Rectifier and meter across modulator out-GZAQ.—Hectiber and meter across modulator out-put.
P. 113: "Dual Purpose Modulator;" J. N. Walker, GJJU. Part II.—100 watts audio from p.p. ELSLs. P. 127: "Matching Feader Lines;" F. Tilloteon, GGXT.—Practical hints for adjusting feeders in particular for 300 olum twin lead.

RADIO AND ELECTRONICS," MAY, 1950

P. 4: "A Sub-Ministure Receiver for Radio Con-trel,"—Full details of 50 Mc. superregen receiver using three hearing and valves. A battery drain of 75 Ma. at 1,30°, B battery drain 500 micro-amps. at \$2.5°. Receiver, relay, and batteries of 79 Ma. 24 July 10 Meter 1242, and batteries weight alt younge.
F. 97 "Actuate Mechanics for Radio Control."
F. 97 "Actuate Mechanics for Radio Control."
F. 98 "Actuate Mechanics for Radio Control."
F. 98 "Actuate Mechanics for Radio Control."
Three wast corpus at 40 Meters.
Three wa

"SHORT WAVE NEWS," MAY, 1950 P. 122: "A Portable Battery Receiver;" J. N. Walker, G5JU.—Tuned RF stage, regenerative detector, audio, Plag. in collector, Carlon Plag. in Collector, Carlon Plag. in Collector, Carlon Plag. in Carlon Plag. in Carlo Plag. in Carlo

"RADIO AND TELEVISION NEWS." MAY, 1950 P. 35: "Simplified Ham TV Station, Part 1.;"
R. Popkin-Clurman, W2LXP.—General discussion
the "flying spot" system used.
P. 39: "Something New in Transceivers;" K. M.
ortge, W8AHT.—Two metre transceivers with BF 1. Topara Citriman, Walker—General Inscussion he "flying spot" system used.
2. 39: "Something New in Transceivers;" K. M. go, WSAHT.—Two metre transceiver with RF built into a telephone handset.
2. 31: "A Supermodulation Phone Transmitter;" P. 51: "A Supermodulation Phone transmitter;"
R. P. Turner, KéAI, and J. W. Graves, WGMYR.—
829B final using one half as the power amplifier
and the other as the positive modulator.
P. 63: "N.B.F.M. and F.S.K. Unit for Self Excited
Oscillator;" R. W. Jones, W6EDG.—Uses 68L7 as
Miller effect reactance tube.

"CO." MAY. 1950

"". "". "Duigo Cenideration for Class C Power Res. 11. "Duigo Cenideration for Class C Power Res. 12. "Duigo Cenideration WWSQD—Simple formulae for Class C calculation WWSQD—Simple formulae for Class C calculation WWSQD—Simple formulae for Class C calculation with the WebNa—Day battery operation. Six rube transmitter-modulation; these title super-vegor receiver. The web Company of the Company

erative detector and audio.
P. 28: "Variable Audio Selectivity with the Surplus FL-8 Filter:" J. P. Tyskewiz, WillXU. P. 29: "The Electrical Design of the 20 Metre Wide-Spaced Rotary;" W. L. Orr. W6SAL—Good straight forward information on tuning them up.

"RADIO AND ELECTRONICS." JUNE. 1950 P. 87: "A Sub-Miniature Receiver for Radio Con-trol," Part II.—Adjusting and testing.

"SHORT WAVE NEWS," JUNE, 1950 P. 154; "An O-V-O Receiver;" G. H. M. Yulc. P. 157; "An Efficient Aerial for 28 Mc.;" H. E. Smith, G6UH.—Two wavelength wire, fed off centre with 100 ohm balanced feeder.

"OST," JUNE, 1950 P. 11: "Amateur Television—A Progress Report;"
E. P. Tilton, WIHDQ.
P. 16: "An All-Band Mobile Antenna Systom;"

S. S. Perry, Wilbs.—Quarter wave whip for 2, 6 and 10 metres. Loaded whip for 20, 40, 80 and 160 metres. Details of universal loading coil and adjustment procedure. adjustment procedure.
P. 19: "An impedance Bridge for Less Than Ten
Dollars;" B. Dodley.—Simple bridge for measuring
L. C and R.
P. 26: "Six Metre Coils for the HRO;" L. G.
Windon, W8GZ.—Conversion of a spare coil box for six metres.
P. 28: "Packaging the Basic Phone Exciter;"
R. W. Bradley, WIFIN.—Miniature construction of P. 30: "A Four Tube Bandswitching Circuit for Mobile Rigs:" W. L. Lin, W9LHF.—6N7 crystal oscillator, doubler, 807 final, 6N7 class B modulator, P. 34: "A Noise Limiter for the HRO-M;" R. W. H. Bloxam, GM6LS,—6H6 limiter for pre-war and war-time HRO's. P. 36: "A Low Cost Audio Filter;" G. F. Mont-mery, W3FQB.—Uses two filter chokes and a

P. 41: "Tower and Rotator Techniques;" L. H. Hippe, W6APQ. Part II.—A rotator, direction indicator and control unit. P. 56: "Hints and Kinks": (i) Improved b.f.o. circuit for the SX42. (ii) Autenna feed through panel. (iii) Protection for modulation transformers.

"HAM NEWS," MAY-JUNE, 1950 P. 1: "The Logarithmic Compressor."—Speec clipper using a copper oxide instrument rectifi-instead of diodes for clipping. This has a soft clipping action and an R-O filter can be used inclead of the claborate L-C filters necessary for diodes. P. 7: (i) "VFO Hi-Lo Switch;" (ii) "Proper Care of Crystal Microphones."

# Low Drift Crystals

## **AMATEUR BANDS**

ACCURACY 0.02% OF STATED FREQUENCY

3.5 Mc. and 7 Mc. Unmounted .... £2 0 Mounted .... £2 10 12.5 and 14 Mc. Fundamental

Crystals. "Low Drift." Mounted only, £5. Spot Frequency Crystals

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 New Power Trans. Red Line 7032 350/350 150 Ma., 6.3v., 2.5v., 45/-., ., 15403 400/400 150 Ma., 6.3v., 2.5v., 45/-

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Valves—813, £2: 6L6, 10/-: EF50 7/6.

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Amateur Radio, October, 1950



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Apply to - Communications Supervisor, Dept. of Civil Aviation, 522 Little Collins Street, MELBOURNE, or the local representative of the Department.

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## DEPARTMENT OF CIVIL AVIATION

#### Tribute from Postmaster General

The following letter has been received from the Postmaster General personally commending the Amateurs on their valuable service to the people of Aus-tralia concerned in the recent floods in New South Wales.

The Postmaser General says: "In a recent broadcast over 2KM Kempsey in connection with the recent widespread floods in New South Wales, I made appreciative reference to the assistance given by the licencees of Amateur Wireless Stations."

He then continues, "Since then, I have received further information of the part played by members of the Institute. both in the Kempsey area and also in other parts of the State affected. Ac-cordingly, I would now like to confirm in writing the sentiments expressed over 2KM, and to say how pleased I am with the readiness shown, once again, by Amateur Operators to perform a public service, in times of emergency, with the facilities for which they are licensed "

Federal Executive, on behalf of all the Amateurs, have great pleasure in conveying the contents of this letter to members and, on behalf of the Wireless Institute, of thanking those members who participated in this public service for stricken people in the flood areas. Keep up the good work of having reliable equipment available for times of national emergency. It is gratifying to receive such tribute from the Postmaster General and to know that the activities of Amateurs are held in such esteem by high authority. Let us pursue our hobby always on a plane that will maintain this happy relationship.

Moorabbin & District Radio Club's Honorary Membership Certificate Honorary Membership Certificate
For the post few weeks the Moorable Radio
For the post few weeks the Moorable Radio
In relation to Henorary Membership Certificates.
The wine appear below and would suggest that
but just a thought to fester goodwill among Hans.
The Moorablom Chis has a membership of over 30
Em of the Second Frields in the month is the persical night;
2 mottree. The meeting nights are as follows:
Second Frields in the month is the persical night;
rooms are at the Town Hall, Nepass Highway,
Moorablan. The Critical call still as YMANU.

RULES OF AWARD Object .- To promote interest and friendship in

Object—To promote interest and treasment of the children of the child and to become elitible for the sweet, and the children of the children o

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#### THE EDDYSTONE "750" COMMUNICATIONS RECEIVER

Selectivity—The answer to the problem of ob-der from image interference is to adopt the double dom from image interference is to adopt the double reported principle is that been done in the "22s" of \$2. Ke. In the \$5 Ke. transformers, the coupling \$3 Ke. In the \$6 Ke. transformers, the coupling the wide image of aniestitity. All the extreme, the wide image of aniestitity, All the extreme, the wide image of aniestitity and the inflavor grings a very dury "moor" and almost the hidden grings a very dury "moor" and almost the hidden grings a very dury "moor" and almost the hidden grings a very dury "moor" and almost the hidden grings a very dury "moor" and almost the hidden grings a very dury "moor" and almost the hidden with the presentation of an almost the hidden With the selectivity coursel at minimum, the "With the selectivity coursel at minimum, the "with the selectivity coursel at minimum, the will be a selectivity coursel as a minimum, the will be a selectivity of a selective and the selectivity of courselves and the selectivity of a selectivity and more selectivity of the selectivity of selectivity as the selectivity of spech and the most refined as the selectivity of spech and to most refine with a selective will a selectivity of spech and the most efficial of selectivity and selectivity of spech and the most efficial of selectivity of spech and

is much properly mounted, the quality of speech node by the post of trials, and the post of trials. The post of trials of the post of trials of the post of trials. The post of trials of

use the "750."
It is normal for the sentirity to vary to some degree over each range of a receiver. Sometimes the variation is great, but if the property of the stage couplings have been stage couplings have been staged to that the variation is small. Maintenance of accurate tracking of the ganged condenser also assists consider.

"Assist the "Assistance" of the sentence of accurate tracking of the ganged condenser also assists consider. in this respect.

remains of accurate, traching of the Styl in this responsable control of the Styl in the Styl in the responsable control of the Styl in th

One diode of a type 6AL5 valve is used as a series noise limiter, and as a result of the careful attention given to the design, this limiter is attik-ingly effective and is a great boon in educations to the design of the design of the series of the temperature. The medical limiter many and the series of the temperature. wnere automobile ignition and s is prevalent. The noise limiter | effect on the general audio level. has only a slight

The second diode is connected in series with the external "S" meter (when used). By its normal rectifier action, it prevents the flow of current in a reverse direction, and thus prevents the possibility of damage to the 200 microampere movement fitted to the "S" Meter.

to the "S" Meter.

The b.f.o. is a completely screened unit, uti
a 6BA6 valve and designed for high stability. a 6BA6 valve and designed for high scaonity.

The VR150/30 stabiliser valve regulates the ht. voltage 40 the anodes of the oscilator valves, to the screen of the first frequency-changer valve and also to the resistor network associated with the "8" Meter when the latter is used. Finally, there is a 524G rectifier valve.

Special Points about the "750."—Attention has already been drawn to the high selectivity and sensitivity possessed by the "750" receiver and there are a number of other features which deserve



Special effective has been given to the sub-interfective that only to make it fully effective but also to prevent the Introduction of hum das-ton the property of the property of the con-cept which is property of the control of the con-trol of the positive to the heater. The con-cept of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the c

and hamidity.

Tuning Mechanism.—The train of spring-leaded gran forming the toning mechanism is a fine piece and the spring properties of the spr

Band-Spread.—Driven from the main gears is a retating scale, the graduations on which (0-100 divisions) are read off in the opening at the top of the main scale. For every complete revolution divisions) are read off in the opening at the top of the main scale. For every complete revolution of the main scale. For every complete revolution to the main scale. In all, the best properties of the length of one major division printed at the bettom of the main scale. In all, the band-spread ceale covers 2,500 divisions over each wave mange, equiv-ments of the cover of the cover of the cover of the scale of the cover of the co tic City Conference.

Tuning Coverage on Divisions Vernier Scale of Band-spre Band Width Band 29.7 to 28 Me. 21.45 to 21 Me. 15.35 to 14 Me. 7.3 to 7 Me. 4 to 3.5 Me. 84.375" 7.5" 6.45" 15" 61" 208 45.5 39 91

Absence of Crystal Filter.—The selectivity given by the "750" receiver with the control at maximum is so great that it is practically impossible to make effective use of any greater degree. It is therefore not necessary to go to the expense of adding a crystal filter, with its astendant complications.

cryata fitter, with its affended compileations. Department on Ethiophony—With its high semilivity properties on Technology—With the high semilivity for those whose interest lies in the reception of the plane, which is the first the properties of the plane of the pl

Automatic gain control in the "750" is most effec-tive and the audio output from a given signal is held within close limits despite severe fading. held within close limits despite severe fading.

C.W. Operation—Some experience is necessity

C.W. operation—Some experience is necessity

secured and the "750" is no exception to this rule.

When the bio. is switched on, a.g.c. is cut out

(otherwise the sensitivity would suffer). With

considering the sensitivity would suffer). With

are optimum and there is rather more it, gain

available than is destrable under normal circum
stances, hence it, gain should be reduced manually. In the majority of cases, it will be advantageous to use a high degree of selectivity and, with the transformer couplings below optimum, the i.f. gain control should be advanced.

trainformer couplings below optimum, the LL gas The Mat. pitch coupling that a witter of 2 Ke. The Mat. pitch coupling the selection of 3 Ke will be found to the selectivity cores. It was not be a selectivity cores. It was not be the amount of the selection of the s

From the associated transmitter.

Pick-Up Terminais.—Provision is made for the
use of a standard type crystal or magnetic pick-up
and these terminals serve another useful purpose—
a signal from a separate monitor (c.w. or telephony)
can be fed in rud will become audible on the telephones or loudspeaker, thereby rendering unnecessary

were a signal with

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the region of 6 amperes.

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saccounter acception on nigh and medium frequencies.

The above details have been supplied by the manufacturers—Stratton & Co. Ltd., Birmingham, England—and described by J. N. Walker (GJJU). The Australian Factor, Representatives are R. H. Ounsingham Pty. Ltd., of 62 Stanhope St., Malvern, Victoria.

## DX NOTES BY VK4OL

For the week-end of 12th and 13th August, I don't think there were many VK Hams interested in DX, the attraction being the 1950 Remembrance Day Contest, and what a party, Each year this Contest is creating more and more interest, with more and more taking

Many of the keen DXers who have been hibernating while the DX has been so poor, crept out of their cocoons for this week-end and have apparently gone back to them as I have been unable to get any scores to include in these

Conditions in Townsville were rather good for the Contest, 3.5 Mc. on the Saturday night and the lack of DX sigs 14 Mc. on the Sunday afternoon, enabled us to hear the weaker VK sigs. 4TU and I tried to work 7 Mc. in the early hours of the morning, but more than half a mile is required to let two use that band at such close range, 4TU use that band at such close range. 4TU
worked UA4FE on 7 Mc. in the middle
of the Contest. Wouldn't it, with me
needing Europe for 7 Mc. WA.C. Two
South Africans were also heard in the Contest on this band. The only scores I know of over the 400 mark are: 2PA 617, 2EO 593, 4QL 445, 4TU 425. Have not heard any of the VK6 or VK7 to see what happened over there.

As was anticipated, the DX on all bands has been very erratic and it looked as though these notes were going to have very little in the way of DX news. But, as I always say, you never know when the bands will "turn it on." This was borne out on the 14 Mc. band the week-end following the R.D. Con-test, prior to a fade-out on the Sunday afternoon

I find that just before a good fadeout is a real DX time, and this was the case on the Friday and Saturday. managed six new countries out of the contacts made. I think the most interesting contact was PIILS, who was on a Dutch weather ship, the QTH being 52°N and 20°E. QSL address is Box 400, Rotterdam.

The next week-end the same thing happened, but the noise level was well down, enabling the weaker DX to be heard. All over the world this year Hams have complained about the high noise level on the 14 Mc. band. Well, this week-end it was missing. The best catch this time was 9S4AX, whose QTH is Saarbruecken, Saar STR9. He advised there are four stations operating in the Saar. Strange to say no "dog pile" formed on him and he made a couple of fruitless CQs and called a couple of VKs with no result. Guess he was thought to be just another commercial in the band.

Some of the DX stations who more or less had a prefix to themselves are or less had a prefix to themselves are having competition, e.g. KV4AQ and KV4AU have been worked as well as KV4AA. A number of SP, OE, PJ, and HA calls have been heard. Some of the HA calls have been neard. Some of the calls missing from the bands for some time are FN8AD, CRIOAA, FI8ZZ, VR5PL, and FU8AA. CR9AG has left Macao and from what he told me is going on a bit of a world tour.

Some of the rarer calls which have been heard or worked this month are: TG9AD, Box 299 Guatemala City; TA3AA, TA3FAS, UG6WD, 9S4AX QSL via D.A.R.C., PJ5FN, PJ5RE, HSISS, KS4AC Swan Is., c/o. Tampa Florida; VPINW, PZIAL, Box 226, Surinam; PK5AA, Radio Stn. Balik Papan; FQ8AC, Box 175 Bangui; LA4ZZ, VR1B, TF5TP, VP9OO, via VP9D. Except for about two of the above, the stations were heard between 2 p.m. and 11 p.m. E.S.T. QSLs received from TF3AR, VP7NM, VP7NU. One also received from FN8AD for our VK3 contact. Did

anybody ever get a QSL from F18ZZ? Haven't heard of any myself. A certain VK5 has never heard of the "Gentlemen's Agreement." Was running a sked the other night on phone in c.w. band with PK4DA. DX was coming through fairly well at the time

Have you had a look at the Station List in the latest issue of the Short Wave Handbook put out by "Radio and Hob-bies?" Did you notice in the overseas station list the number of stations shown operating in the 7 Mc. band? I think 2JU could do the Hams a service if he gets all the details of the broadcasts and submits them to Federal Executive for action to be taken up with the right people. What about it John?

• The thought for the month: "The Ham never uses the air for his own amusement in such a way as to lessen the pleasure of other fellow Hams."

#### DX C.C. LISTING



VK2AHA (15) . . . . . .

109

#### IONOSPHERIC PREDICTIONS FOR THE AMATEUR BANDS

#### OCTOBER, 1950

Nine of the charts, prefixed by the letter "C" for Canberra, refer to forecasts for the South-Eastern Australian States. The remainder, prefixed by the for Perth, are for Western Australia.

The Canberra charts refer to the ollowing world zones:— Zone Terminal

	Western Europe	London
	Mediterranean	Cairo
	NWest America	San Franc
a	NEast America	New York

isco

4 South Africa Johannesburg Far East Manila The Perth charts are similar to those based on Canberra.

#### QUIZ

The Prediction Service comments on the accuracy of its predictions. In particular, answers to the following questions on the Canberra-San Francisco circuit would be useful:-

 Were good conditions experienced on 7 Mc. for the period 0700 to 1500 hours G.M.T.
Was the 14 Mc. band workable between 1200 and 1500 hours

GMT? Was the 28 Mc. band workable for several hours around midnight

G.M.T.? Answers to the Quiz should be sent to the W.I.A. and should, if possible, refer to consistent results obtained on



#### FIFTY MEGACYCLES AND ABOVE

Compiled by J. K. RIDGWAY, VK3CR.

SYDNEY STATIONS ACTIVE ON 576 Me. The following list, sent in by VK2AQZ, gives de-Sydney area.

VK2ANF—Two RL18s, 5 watts, superregen. Rx, corner reflector ant., 12 miles greatest distant. VK2ALU—Two RL18s, 5 watts, ASB7 Rx, Helix

VK2ALU-Two RL128, natt, superregen. Rx, Ant. 18 miles. VK2AMZ-Two RL184, 5 watts, superregen. Rx, 16 element unt., 7 miles. vK2AWZ-Two RL184, 5 watts, corner reflector ant. VK2AZO-Two RL184, 5 watts, superregen. Rx,

VK2ACO-Two R118s, 5 watts, superregen. Rx, 4 x 4 ant. 118s, 25 watts, superregen. Rx, VKYE-Ose R118s, 25 watts, co-ax mixer (1N21 xtal) Rx, Helix ant. VK2W4-Two R118s, 5 watts, superregen. separate queech Rx, 5 x 5 ant., 18 miles. VK2AH-Two R118s, 5 watts, superregen. Rx, VK2AH-Two R118s, 5 watts, superregen. Rx,

VK2.8H—Two R.18s, 5 watts, superregen. Rx, v4 x 4 and 3.3—Two R.18s, 5 watts. VK2PU—Two 8012s. (on way), superregen. Rx, disple mesh reflector ant, VK2SG—Two R.18s, 5 watts. VK2SG—Two R.18s, 5 watts, superregen. Rx, Helix ant. VK2APW—The R.18s, 2.5 wasts, superregen. Rx.

Helly and

Holtz and Participation of the Conference of the 144 Mc. FIELD DAY AT STAWELL

144 Mr. FIELD DAY AT STAWELL.

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"The first hour was a washout, due to a 144 seramble, but we skayed on and listened on a quiet for the strength of the strength of the strength of the sky with a 40 GeV, beam directly on Melbourne, no reflections of the mages. Then Stee from Balanat at R. S. 99 Jun. and the strength of the strength o 50 Mc. ACTIVITY

#### NEW SOUTH WALES

NEW SOUTH WALES

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exchange with rubber tubing. Blob is elected out the share which is appeared to the share which is appeared to the share which is appeared to the share which we have been a share which we have a strong size in the share which we have a strong size in the share which is a strong size in the share of the share which is a strong size in the share of the share which is a strong size in the share which is share which is a strong size in the share which is share which is share which as the share which is share which is share which is shared with the shared wi

lator. Second op. Jack, at 2XX, is off on a visit to G land with a list of goar to bring back. Two "double axe" won't sound so west-country for a while. 2ZW makes rare appearances on the band with an 834 in the final. Why so clusive, Stan't

VICTORIA

Rex, 3VL at Omeo, is now transmitting on 50 Me, each Sunday evening from 1930 to 2000 hours and it looking for coatacts. Here is a new contact signal to break through. 3NW and 3NA have both been presented with harmonic oscillators and both XVIs are doing well, likewise the harmonics. Congratulations are offered to Ken and Dox. SOUTH AUSTRALIA (by C. H. Castle, VK5KL) Each month these notes will appear by the above writer to fulfill a long-felt want and request to the VK5 Council by the country members to whom

the main contact with the city affairs is via this magnitus. My whole interest is in v.M. and I have discontinuously and the control of the c activities to 55 Retown, ring II 2546. town, rise U 2446. With the weather improving and the DX season With the weather improving and the DX season was to be used to be us

IN ADDITION TO STOCKS OF COMPONENTS ADVERTISED IN PREVIOUS ISSUES OF "AMATEUR RADIO" WE NOW HAVE SUPPLIES OF THE FOLLOWING LINES AVAILABLE:-

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<ul> <li>Bulgin D300 Series Front Loading Panel Indicator Lamps</li></ul>
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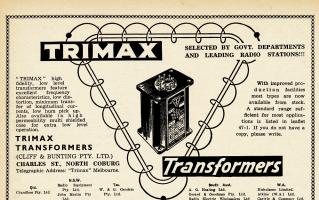
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# FEDERAL, QSL, and DIVISIONAL NOTES



Federal President: W. R. GRONOW (VK3WG); Federal Secretary: G. M. HULL (VK3ZS), Box 2611W, G.P.O., Melbourne. NEW SOUTH WALES OHEENSI AND

President.—J. Corbin, VK2YC. Secretary.—David H. Duff (VK2EO), Box 1734 G.P.O., Sydney.

Meeting Night.—Fourth Friday of each month at Science House, Corner Gloucester and Essex

VICTORIA

Problem - C. Summon, VAS Collington Ave., British - C. Summon, VAS Collington Ave., Brighton (CA. 6216).

Bathing Might—First Weshessly of each mooth at which with the collington of the collingt

#### WI BROADCASTS

All Amateurs are urged to keep these fre-quencies clear during, and for a period of 15 minutes after, the official Broadcasts.

VK2WI.—Sundays, 1100 hours EST, 7196 Ke. and 2000 hours EST 50 and 144 Me. No frequency checks available from VK2WI. Intra-State working frequency, 7175 Kc.

VK3Wi.—Sundays, 1130 hours EST, simultane-onaly on 3380 and 7196 Kc. and re-broad-cast on 50 and 144 Mc. bands. Intra-State working frequency 7185 Kc. Individual frequency checks of Amateur Stations given when VK3Wi is on the air.

VK4Wi.—Sundays, 0900 hours E.S.T. simultane-ously on 3750 Ke., 7196 Ke., 11342 Ke., 524 Me., and 144.138 Me. Prequency the times are announced during Sunday broadcasts. 7065 Ke. channel is used from 1000 to 1030 hours each Sunday as VK4 query service to VK4Wi.

VK5WI.—Sundays, 1000 hours SAST, on 7196 Ke. Frequency checks are given by VK5DW by arrangement only on the 7 and 14 Mc.

VK6WI.—Sundays, 9930 hours WAST, on 7196 Kc. No frequency checks available. VK7WI.—Second and Fourth Sundays at 1000 hours E.S.T. on 7196 Kc. No frequency checks are available. President.—J. F. Pickles, VK4FP, Secretary.—W. L. Stevens, VK4TB, Box 638J Secretary.—W. L. Meeting Night.—Third Friday in each month at the I.R.E. Rooms, Wickham 'St., Valley. Divisions! Sub-Editor.—F. H. Shannon, VK48N. Minden, via Rosewood.

SOUTH AUSTRALIA

President.—E. A. Barbier, WKSMD.
Scoretary.—G. M. Bowen, VKSAU, Box 1234K,
G.P.O. Adelaide.
Meeting Night.—Second Tuesday of each month at
17 Waymouth St., Adelaide.
Olvisional Sub-Editor.—W. W. Parsons, VKSPS
483 Esplanade, Henley Basch. WESTERN AUSTRALIA

President.—R. W. S. Hugo, VK6KW. Secretary.—W. E. Coxon, VK6AG, 7 Howard St. Perth.

Perth.

Meeting Place.—Padbury House, Cnr. St. George's
Ter. and King St., Perth.

Meeting Night.—Third Tuesday of each month.

Divisional Sub-Editor.—Alec A. Smith, VKOAS,
75 Weston St., Carlisle, Western Australia.

TASMANIA

President.—J. Brown, VK7BJ.
Secretary.—R. D. O'May, VK7OM, Box 371B.
G.P.O., Hobart. Meeting Night.—First Wednesday of each month at the Photographic Society's Rooms, 163 Liver-pool St., Hobart.

Divisional Sub-Editor.—S. Excell (VK7SJ), 77 Molle Street, Hoburt, Tasmania. Northern Zone Correspondent.—R. H. Kilby, VK7RK, 5 Galvin Street. Launceston.

#### FEDERAL.

#### REMEMBRANCE DAY CONTEST

Members have caused considerable delay and in-convenience by forwarding Contest Logs direct to Divisional Connection. With all Federal Contests it is necessary that members forward their logs to the contest of the contest of the contest of the contest of the state and membership care that their financial status and membership care that their formation of the logs are forwarded to the Pederal Content Committee

Members are therefore asked to remember to do this, and by so doing help the already overburdened Federal staff to have the final results available for publication within a reasonable time after the con-clusion of a Centest.

● Some members still omit to sign their logs!
Remember this mistake makes your log invalid because anyone can type or write a list of contest
contacts and put your call sign at the top. Your
signature, checked against your original application
form signature, proves the authenticity of your log

#### DX C.C. MANAGER

With the greatly increased membership of the W.I.A. it has been found necessary to expand the staff of Federal Executive to cope with the increase of secretarial work involved, which in turn we hope will increase the efficiency of Federal Executive to the benefit of all members.

tae oenent of all members.

In this 'regard WABZ, G. I. Morris ("Morrie"), has gladly accepted the honorary position of DX C.C. Manager and will be speeding up the presentation of this certificate to claimants. "Morrie" has indicated his willingness to check. W.A.S. 50 Mc. and Above for members interested in the v.h.f.

■ To avoid the necessary delay involved in forwarding cards to G.P.O. Box 26.11W, members are asked to forward their verification cards direct to "DX C.C. Manager, G. I. Morris, Esq., 50 Eighth Street, Parkdale, Victoria."

In the meantime, members who have claimed DX C.C. and W.A.S. 50 Mc. Certificates and not syst had them issued, are asked to be patient for a week or two until the system becomes operative. Your Certificates have not been lost:

#### -SILENT KEY-VK2ZS

It is with deep regret we announce the passing of Gerry Challender, VK2ZS, on Monday, 4th September, 1950.

FEDERAL CONSTITUTION ALTERATIONS F.E. on behalf of the Federal Council of the W.I.A., hereby gives notice that it is intended to alter the Federal Constitution of the W.I.A. (as amended 1947). Section 41A, as follows:—Delete the word hirty" and insert the word "fourteen" in lieu

and most the wext "fourteen" in lieu Add 67A, Membership Transfers: "Where a mem-ber transfers from one Division to another, (1) cala member for the remunder of the financial year provided be was fully inascetal before departing to the control of the community of the control colonic Division shall advise the Secretary of the the member's financial status and grade." Add 44A: "That is mattern of finance involving of the Februal Council be required for the passing of the methon."

DX C.C. CERTIFICATES of repeated criticism of the existing DX Certificates. ertificates, Divisional Councils in each State een requested to forward to Federal Executive Division's comments on the quality and

#### W.I.A. ACTIVITIES CALENDAR

Sept. 22-24: VK-ZL DX Contest (c.w.). Sept. 29-Oct. 1: VK-ZL DX Contest (phone). October 6-8: VK-ZL DX Contest (c.w.). October 13-15; VK-ZL DX Contest (phone).

standard of this Certificate preparatory to requesting specimen designs for a new Certificate. Members who are competent with the drawing board are asked to take an interest when this matter is brought up in their Division and submit designs. Don't leave it to the other member! ADDITIONS, ALTERATIONS, AND DELETIONS TO

AMATEUR CALL SIGNS-AUGUST, 1950

VK2BQ—G. C. Page, 59 Simpson St., Tumut. 2ACN—R. S. Nancarrow, 1A Parklands Ave., Lane Cove. 2AHC—R. H. Corcoran, 23 Glargow Ave., Bondi. 2AIF—J. C. Fairweather, 555 Fisher St., Broken BH. H. Branford, 1 Centennial Ave., Lane Cove. 2APF—H. J. Freeman, 90 Rosemont St., Punchbowl.

2ATR—E. F. T. Reynolds, c/o. 8.8. "Mungana."

2AWM—D. J. Medley, 16 Kennett St., Bondi.

VK3AHG—D. G. Gilder, 58 Clarendon St., East

Melbourne.
VK3AOS—O, K. Scouller, 878 Mr. Alexander Road,
Bostrodon.
3AVS—V, K. Scouller, 878 Mr. Boss. College,
3AVS—V, Server, S. North Melbourne.
3AZW—T. Lelliott, Owen Street, Boronia.
VKEE—E. D. Neale, 38 Felix St. Wooloowin,
Britshane.
47Q—J. F. Wordoth, 29 Godsall St., Toowoomba.

VK5EA—R. L. Archibald, 3 Penong St., Hyde Park. 5EC—G. E. A. Cameron, Flying Doctor Base, Alice Springs, N.T.

Amateur Radio, October, 1950

VILICA-S ferrier Storet, Bilards, 1811—9 Bellium, 1984. Avenue, Parkhille, 1808—11 Gaten Stewn, Inc. 1809. Bloom 1

VK2GC—Concelled, now operating under VK5EC.

2NV—Cancelled, now operating under VK5EC.

2NV—Cancelled, now operating under VK3AHG,

XK3AV—Cancelled. N—Cancelled.
—Cancelled.

SW-Cancelled, now operating under VK3AWM.
SBW-Cancelled, now operating under VK3AWM.
SFV-Cancelled, now operating under VK3APB.
SHB-Cancelled, now operating under VK3APB. 5RL-Cancelled VK9SN-Cancelled

## FEDERAL QSL BUREAU RAY JONES, VK3RJ, MANAGER

The new address for the Canal Zone QSL Bureau is: KZ51P, Isaac R. Price, Box 64, Diable Heights, Canal Zone. Les REIBN, hance E. Price, Bez 4.5, Dishlo Heights, The B. ALLE, Short Ware, hunderer Guwereline The B. ALLE, Short Ware shared Convertient The B. ALLE, Short Ware shared Convertient Conference of the Consequent Conference of the Conference of th

The the lowest of v.K. eschmister, N.T. Law and the second of the control of v.K. eschmister, N.T. Law and the second of the control of the control of the forestern law and it is never band string in further control of the control

C3MC, heard during August-September on 14 Mc c.w., gives his QTH as Shao, Box I, Tanshu, Taiwan VR4AA is no longer active, but a new Ham i there and active on 14 Mc, c.w. only under the call sign of VR4AC sell size of VRAAC.

Wal Crombe, VKSeV, in writing to this Bureau, mentions that 28 Mc, is very doct up there, but that 20 is OK and also that has yet to beer A290 i.A.C. Crombe, W., VKMJC, Transmitting Station, R.A.A.F., Admiratily blanch.

S.A., S.A.

#### NEW SOUTH WALES

NEW SOUTH WALES
The monthly meeting of the Britisch was hold
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Finday, 25th August, and the meeting was opened
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#### VALE VK2ZS

The Council of the N.S.W. Division of the W.I.A. regrets having to inform members that it received, on Monday, 4th September, an intimation that our esteemed friend and colleague, Gerry Challender, VK2ZS, passed

a sincere and affectionate friend. Valt.

To his wide and two cans. the Council and all members of the institute extend and all members of the institute extend consequences of the property of the consequence of the property of the consequence of the following of the consequence of the following of the property of the consequence of the lastitute. The hunter Branch of the ASAW, Division of VAZZIO, also present was Peter Alexander, VAZZIO.

Mr. Mennies, on his return from coversia, regarding peoples, and presumably other countries. Curve peoples, and presumably other countries. Curve peoples, and presumably other countries. Curve peoples peoples from the Questional Division Curve (Control of the Control of the C

WESTERN SUBURBS

WESTERN SUBURBS

AMJ, Joyse, has been getting excellent reports
from Enuque lately, using her new 3 clement beam.

Palex, New of these beams for Kells. Just a stail
old full vave antenna; nice quality phone. AAPT
has his new beam; now all the locals are waiting
among the DX chaners. 2XII has been delving into
the mysteries of making vi.dov. kit; will be homing note the rare ones soon. 2AHU: poles are
the constantions. all ansalon; many a lag of consent vont into ANX, nothing has been placed of Pauls Dur, to doubt the hours in up and planty of voot in being ANX, nothing has been placed of Pauls Dur, to doubt the hours in up and planty of voot in being and the place of the place o roll in. NORTH COAST AND TABLELANDS

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HUNTER BRANCH

mediuslation. HUNTER BEARON

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water to me. The DX french of the Brought are all contents.

Contents.

The DX french of the Work DX for the Brought are all the Brought are t

gets AVI, our meeting right.

Department of Wal above, 24A, Polite Superintend of the Albano, 25A, Polite Superintend of the Albanoon, 25A, Polite Sup

after a long absence, has made some very fine QSOs with 2VW on 2, not bad for winter conditions! The tower at 12OS Thornton is still receiving much

One was it is not a part of the control of the state of t soon, now has a No. 11 and a good receiver.

9X bopes to make it soon. The vi.o. at 26X is at a stand-still—has been very QRL. The Jurgost Add of the finite Branch Emergency Net went forward a week to miss the VK-ZL Contest. Thanks to 2XQ and cargo you can't miss these co. greats of the property of th Sunday afternoon. 2XQ put in some good work the R.D. Contest.

in the R.D. Context.

John S. W. Starten, buildings in Greekel to see a STATE. But he takes the vessel made it at one stage of the proceedings. 227 not very active, only the proceedings of the proceeding

#### COALFIELDS AND LAKES

COALPIEGOS AND LACES

Conditions have been poor on most hards during with the warm weather—specially on the which will be with the warm weather—specially on the which properties and the properties of the proper

TALL is estimated beard, platty of gover but how. 270% has a form mere blat and pieces where it is another whose activities are limited due to held the state of metres-anytime.

to 2 micros—suythne.

At had I can have motes of the Lakes, they are read all 2III, who not solve it ADT. 2AMF from the case and 2III, who not solve it ADT. 2AMF from the case and 2III, who not solve it ADT. 2AMF from the case and 2III who not solve it ADT. 2AMF from the case and the case a

—how's the stars Len? Any DX? 2RU has added a QSer to his lif. receiver, working 6 and 40 between times. Major can be found mixing concrete putting down paths—been seen pushing a wheel-barrow away from his pet hill—opstedly moving dirt, but the gang say he is moving the hill so he will make ZL next season on 6—which is it Major?

#### WESTERN ZONE

Here year. WESTERN 2016

Here year. Western 2016

Here year. William of the mean to be all year. Western 2016

Here year.

with 1930. Section 1, 1970. Section 1, 1

Meckton, QMM by rabbits.

Round Forbes, things have been very quiet, 2BT

Round Forbes, things have been very quiet, 2BT

Round Forbes, the property of the property of the control of the

and 23.7. Other Dubbs Hame sites:

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2.300. Armedi, parting out the agenal on nighty,
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#### SOUTH COAST AND SOUTHERN

SOUTH COAST AND SOUTHERN
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AKE far too interested in sheep to worry about
Ham Radio, has hopes of an a.c. supply one of
them shello, has hopes of an acc. supply one of
these days. No serve of 2TU or 2TA, agess both of
Heartiest congratulations to Air Moye, 2BW, Mal
Robinson, 2HT, and Bran Mittelder who were predefined the sheep of the sheep of the sheep of
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#### VICTORIA

The September general meeting of the Division was held on Wednesday, 6th September, at the naul place, the Melbourns Technical College, Bowein College, College,

harris welcome. The forectary (Dick Der. BDY), was adoing therefore, they were put to the metting former of the control of the

concluing to the general meeting.
The agends time for the next general meeting (October) will be a jecture by 3ART on "Sumport interesting and absorbing. He will illustrate be talk with charfa (white go back for some 200 talk with charfa (white go back for some 200 talk with charfa (white go back for some 200 talk with charfa (white go back for some 200 talk with charfa (white go back for some 200 talk with charfa (white go back for some 200 talk with charfa with charfa

#### PERSONAL JOTTINGS

33D petting rath per he coming vi.h. field day and the common power size that "Leafe". See fall the common power size that "Leafe". New fall the common power size that the common power size which them. They want to have been size visit that the common power size with them. They want to have been size when they were with them. They want to have the size want to see a size when the common size that they were with them. They want to have the size want to see a size want to see a size when the common size was the size of the size was the size of the size o

#### VICTORIAN RAILWAYS INSTITUTE WIRELESS CLUB-VK3RI

CLUB—VKJRI
The abovement/oned club held its monthly meeting on Thurnday, 7th September. The usual business
was fully dealt with after which a general diseased as support. The club wishes to state that the 40
meter rig has been put into working order again and
the club business to have a three clement beam for 30
Me. at an entry date. The next club dances will be
held on 14th September and 18th November.

The club is the state of the state of the club dance will be
held on 14th September and 18th November.

#### MOORABBIN RADIO CLUB

The usual monthly meeting of the above elub was held on Friday, 18th August, at the club rooms. Fown Hall, Moorabbin. There was a good muster of members and visitors present and the President, stein his usual breast style, gave them a right royal welcome. Owing to change of jobs, the Sec.

retary. Ted Soutz, tendered his resignation and the on. The smellers hised on record the good work to the control of the value of the "Researcy Residential Certificate" the rates of the "Researcy Residential Certificate space advances in this lasso, for histians the space advances in this lasso, for his finite space advances in the control of the convented applied to the control of the control

appreciation of Len's fine effort. 32M reported on the practical sight recently bell and stated that the practical sight recently bell and stated that Ed to purchase a militable receiver for club use. Donations still come in in the form of gear for which the club is very grateful. John Duwes re-ported on his visit to the V.R.I. Beldo Club's annual club. There being no further business, the meeting closed at 2200 hours. The club meetings are held i at 2330 hours. The club meetings are held he second and third Friday evenings of each h at the Town Hall, Nopean Highway, Moorab-The next meeting (20th October) will be a re on "High Frequency Transmissions," given "high" up in the R.A.A.F. We would like a as many of the boys as possible at any of lecture on "l

#### EASTERN ZONE

The same in the companies of the companies of the companies of the last both limited of the NULL, which make given the companies of the last both limited of the NULL, which make given to the residence of 217, the companies of t

Badio and eventually gain their tickets. We intend this should give the beginners conderable and the condera

Tornicos, give the more ten now members for Agent from the freegoing, present lines this act of the control of

#### SOUTH WESTERN ZONE

On the 17th August 3AGD and your scribe, 3AKR, departed from the temperate south weet, for the snowlands. As they were travelling in two separate cars, it was decided to install 144 Mc, mobile equipment of the south of the sou

welcome visit from BKR and SAT who beyonds their VMs and harmonies up for the day. At the most control of the control of the same control of the control of

45/HP5



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OFFI ONO AMATEUR PARIS CLUB VYZATI

GELIONG AMATEUR RADIO CLUB—VENATL
A very interesting evening was spent by member
of the above cinh at the first meeting for the
month when 3ME gave a proved elementaristic
be had by adding elements to the antenna. He used
in this case a three over three. Members were able
in this case a three over three. Members were able
meter. Ed also showed how a simple 144 Me,
ancenna could be made up in a few minutes and
point. He also described the "City Slicker" antenna
ard used the blackboard to illustrate this antenna. point. He also described the "City Silector" antenna Many openious were fired at him. Many openious were fired at him. Many openious were fired at him. And the second of military colicity, them members paid to viole (not be silect of 3 ARC. Also man 100 wints to viole (not be silector) and the second of the boam ready to go up on a latticed man; his Ro-lean state of the silector of the second of the boam ready to go up on a latticed man; his Ro-lean state of the second of the very impressive show. On vice also was the clabb. With. This is the first of its kind held by Amsterna to Geological and makes benegated and a contract very impressive show. On vice also was the clabb. With, which the clab probe very proud to the With, which the clab probe very proud to an after, was on the air on 30, 40 and 2 meters.

#### NORTH EASTERN TONE

NORTH EASTERN ZONE

A straight the is not necessarily the shortest distinct to the contract of the contract of

some in a specific to fact every for the list and any of miner. In the way of a miner, he was not as supporting to have say any of miner. In the way of miner is not been a support of the way of miner. In the way of the way of the way of the last of the way of the way of the last of the way of the way of the last of the way of the last of the way of

#### QUEENSLAND

This month we have very little news of activities at besiduarters in Bristane. However we have a wealth of zoon news which we hope will make up for the lack of notes on generall meeting, etc. During August visitors to Bristane included 4EL, 6ER, 4RH, 4LD, 48N, and 4CU. Those who went

about to the Bohbhiton had a good hook at the respect, II was nevertheless a beginning of water respect, II was nevertheless a beginning of water to be the properties of the properties of the pro-ton of the properties of the properties of the a 100 want transmitter, Clans O Ward Mere, N.C. and the properties of the properties of the pro-mode of the properties of the properties of the many lock. Scarce, Transmitter, Perdally Gair, and times were 1FP, 14P and 15P. While waiting on the calculate of the properties of the pro-tinger (whose name I have fragottes), who operated below some boddley Hame to this population than the properties of the properties of the pro-toner of the properties of the properties of the some boddley Hame to this population of the properties of the properties of the pro-toner of the properties of the properties of the pro-toner of the properties of the properties of the pro-toner of the properties of the properties of the pro-toner of the pro-toner of the properties of the pro-toner of the protoner of the protoner of the pro-toner of the protoner of the protoner of the pro-toner of the protoner of the protoner of the pro-toner of the protoner of the protoner of the protoner of the pro-toner of the protoner of the protoner of the protoner of the pro-toner of the protoner of the protoner of the protoner of the pro-toner of the protoner of the protoner of the protoner of the pro-toner of the protoner of the protoner of the protoner of the pro-toner of the protoner of the protoner of the protoner of the protoner of the pro-to

land and hopes to become an active YKI.

Owing to the holidays I was not a participant in the R.D. Contest this year, but did manage to the Contest the year, but did manage to the contest of the best for a fixer period during the Contest of the C

## We have been advised by our outward QSL. Officer that VK4RL, 61 Manilla Street, East Brisbane, is handling this section until further notice.

4RC has been on the sick list for some time. Everyone will be sorry to hear of Bob's illness and I know I am expressing the sincere wishes of all in wishing you. Bob. very sneedy preovers

#### BRISBANE ZONE (4CC)

BRIGARE ZOUE (ACC)

1757. The most of me at these, he had mess than 1757. The most of me at the second of the seco the tower being erecte G.P.O., then you can footer with confidence

footer with confidence.

Like many other Birkshue stations, 4FB and
Like many other Birkshue stations, 4FB and
modulates with every good effect loss. By the way,
Few set to bear of a lazier way of turning on the
Like was the set of the set of the set of the set of the
life tool, 14D should soon be stirring up the DX
with his own right, be day pretty well in the recent
with his own right, be day pretty well in the recent
has been been set of the set of the set of the
Like was those to 1FF; wouldn't 17. Wish I had both the volume and quality that TI is possible

4XC (Charlie) are blocky enough to have Command
transmitters to us as x.Lo.

transmitters to use as v.f.o.

Speaking of 4KC, his photogenic daughter hakindly offered to take notes of items of interest
as she twist, the OMs dial and pass them on to
me for isclusion herein. Better watch out or you
me for isclusion herein. Better watch out or you
triplete. I am told that 4M has other twotriplete. I am told that 4M has other two
Ham Radio, he was observed going to the Grange
Archery with a gaily coloured tackle case the ether

Sunday:
In a recent copy of "A.R." it was noticed that
4KN had closed down. Rumours reaching the subceller seem to indicate that Eric is suffering from
an itely key finger. Clive reports that Eric, Junttold him that 4EN has started hammering, aswing
and soldering again and to all intends and purposes
it could be that Eric, Sun., is coming on the air

#### TOWNSVILLE ZONE (4EL)

TOWNSVILLE ZOME (4EL) the world wide authority on relays and their allystements and effectivels beyon. Still knock channels are all described by the still standard control from all of the standard control from all of the still standard control from all of the standard control from a standard c 4XD not heard lately due being QRL at local nice c.w. lately as a change from phone. Graham is said to have been chased by a big had well on the late of the control of th

#### DOWNS ZONE (40G)

most neither few, mights recently (GA seem to 197), should be a point of the first street Neutral Polymonia (Saper to see the first str

mass one appreciation. I think the time has now come for hand over the sub-cliffor 3 obto t

#### SOUTH AUSTRALIA

The smoothly personal moving for August was the property of t one or two converters that the half contracted from the number of questions and the discussions that save later, it would be no arretin of the contract of the being on far from the city, was exhelded from a contract of the being on far from the city, was exhelded from a contract of the being on far from the city, was exhelded from the contract of the being on far from the city, was exhelded from the contract of the being on far from the city, was exhelded from the contract of the being on far from the city, was exhelded from the contract of the contract of the being the contract of t ELECTRONIC

A & R

# HAMS!

ELECTRONIC

A & R

In response to numerous requests for a more universal high tension transformer, we have redesigned our type PT1371-8. It is our belief that the new range of taps will meet the requirement of both "Hams" and "Sound Mem" alike. The new PT1371-8 now features the following:—

Primary: 200, 220, 230, 240 volts; Secondary: 500, 600, 750, 850, 1,000 volts per side of C.T. at 300 Ma. The price of this conservatively rated item is unchanged by the modification, and is obtainable at the old price of £6/8/1 including tax.

## MAINS FLUCTUATION

A further A. & R. type is a must with many Hams—namely our AT1202-22 mains adjusting transformer. This item is tapped from 180 to 250v. in 10v. steps, and will continually handle a 500 V.A. load—ample for the total drain for any rig. The price of the AT1202-22 is &3,17/4 including tax. Also available are mains adjusting transformers rated at 100, 250, and 1,000 V.A.

All A. & R. Products are obtainable from:—
Wm. Willis & Co., 428 Bourke St., Melbourne (MU 2426); J. H. Magrath Pty. Ltd., 208 Lt. Lonsdale St., Melb. (C 3688)

## A. & R. Electronic Equipment Co. Pty. Ltd.

378 ST. KILDA ROAD, MELBOURNE, S.C.1

Phones: MX 1159, MX 1150

Setting a New Standard in Communication Receivers-

## The "Commander" Double Superhet.

Free Data Sheets on Request

Interstate Representatives: West. Aust.—Messrs. Atkins (W.A.) Ltd., 894 Hay St., Perth. Queensland—Messrs. A. E. Harrold, 123-5 Charlotte St., Brisbane. In other States direct your inquiries to firms handling Bright Star Crystals.





Valves, new, boxed, RCA 834s, £1/8/- each.

Limited number of the following Taylor Tubes: TZ20s, £2/10/- each; TB35s, £6/10/- each.

Type 11 Transcrivers in fair condition with power sympler. \$2 each.

Type 11 Transceivers in fair condition, with power supplies, £9 each.

CRYSTALS, as illustrated, 40 or 30 mx., AT or BT cut. Accuracy 0.02% of your speci-

fied frequency, £2/12/6 each.

20 metre Zero Drift, £5 each.

Large, unmounted, 40 or 80 metre, £2 each.

Special and Commercial Crystals—Prices on application. Crystals re-ground, £1 each.

BRIGHT STAR CRYSTALS may be obtained from the following Intertain furne Mesers, A. E. Harrold, 12 Charlette St., Brabaner, S. G. Hauling Ld., 131 Firs S., Adelaide, Atlanc WA. J. Ld., 894 Hay St., Perth; Lawrence & Hanson Electrical Pty, Ltd., 120 Collins St., Hobart; Collins Radio, 409 Londale St., Melbourne; Prices Radio, 5-6 Angel Piace, Sydney.

A.W.A. Split Stator Transmitting Condensers, high voltage, £2/15/- each.

Screw-type Neutralising Condensers (National type), suits all triode tubes, Polystyrene insulation, 19/6 ea.

Prompt delivery on all Country and Interstate Orders.

Satisfaction Guaranteed.

BRIGHT STAR RADIO 1839 LOWER MALVERN ROAD, GLEN IRIS, VIC. Phone: UL 5510.

Among the welcome viaitors were SUX (Kulsur), SUY, SXL, Cherry SIH (Forr Augusts),
SUY, SXL, Cherry SIH (Forr Augusts),
Taylor, To these viaitors, some of whom are member, we say again, come as often as you can, and
have found us a decent bunch of tellows, well then
join up and be one of us. Bemember that if you
then you want to be the surface of the company of the
point up and be one of us. Bemember that if you
then you want to be the company of the company
that is a fore of another colour.

It is a lore of another colour.

are only an individual, Lott collectively, well that I wan pile improved with the good and splitts with which Joe McMillette found a handboard dustre with which Joe McMillette found a handboard dustre hand to be supported by the pile of the pile

one or more poisoned darts matter little.
John Shardt (ex-51A, now in Bogland), writing
to Joe McAllister, says that he is now domiciled
in Burwood Plat, Surrey, and hopes before long to
television and says that it has a clarity and fascitation equal to say home more and shee said
he had viewed a cricket match in his stiting room
matches in the grandshands. As a matter of interest
he quoted the price of his television set as being
125/1707. complete.

The December of the stelevision set as being
125/1707. complete.

The December of the stelevision set as being

In STATE of the second of the

my failen chest is still failing.

5TL forwarded on to me a letter he had received room 5TL in connection with a mellericed QSL from 2TL in connection with a mellericed QSL from 2TL in connection with a mellericed QSL from 1 to 1 the VKS chapter and the VKS notes for the max. I was puted up with my own importance which was the max in the puted of the vKS notes for the max. I was puted up with my own importance which said that deall meant "odd or quere" and now if a most too sure of myreck, (i) well, he had probably just finished a QSD with my soul mate probably just finished a QSD with my soul mate and the puter of the probably past finished a QSD with my soul mate and the probably and finished a QSD with my soul mate and the probably a part of the probable past finished a QSD with my soul mate and the probable past finished a QSD with my soul mate and the probable past finished a QSD with my soul mate and the probable past finished a QSD with my soul mate and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the probable past finished a QSD with my soul materials and the past finished a QSD with my soul materials and the past finished a QSD with my soul materials and the past finished a QSD with my soul materials and the past finished

probably part fainted a cold with an own max discussed in the cold water and wa

best price goods before a fall. Incidentally, quite a number of people, not all locidentally, quite a number of people, not all nodedentally, quite a number of people, not all and 549° at none ever day, and after intending to a few mayelf. I am convinced that the reason for a few mayelf. I am convinced that the reason for streetlen "Roop" will put on the twelve clock attending the service of the service

within these traffic is blocked with more three total and "Principal Secretary, 25 Ut. has a yet as there is some suggestion of a sojourn in how as the some suggestion of a sojourn in how as the some suggestion of a sojourn in how as the some suggestion of a sojourn in how as the some suggestion of a sojourn in how as the solid solid

his Yu-dwesters to lose Parsonist to all who would listen.

It is all have for this mush, for some unexplainable reason, my correspondent from Mt. Gambler is in the land of the missing, and also developed the land of the missing, and also developed the strain. As the superently broken down with the first and don't feel quite 100 per down with the first and don't feel quite 100 per down with the first and don't feel quite 100 per than the superently list well Colin and Lance, Jost in passing, Gordon Bower has unfortunately more to Daws and the superently list will be home soon.

#### WESTERN AUSTRALIA

The August meeting of this Division was held in the Institute Rooms, Pathory Rouse, St. George's appointing attendance. The August Parket and the was conducted in what must have been record time, does in one way to the Secretary Isaving the minutes was conducted in what must have been record time, does in one way to the Secretary Isaving the minutes was conducted in what must have been record time, does in one way to the Secretary Isaving the re-view of the Secretary Isaving the Con-traction of the Secretary Isaving the Con-traction

Bon asking a quick cut when he meeting algorands of AS, acting a solid projectionity, treated the AS, acting a solid projectionity, treated the control of t and much good work was done on that band. Considering the relatively poor conditions, some remarkable scores were made by several VKB extensions. The main thing to do now is get your logs in to the Secretary and help build up that multiplier. With seemed to be very well represented and I will be seen to be the secretary and help build up that multiplier. With seemed to be very well represented and its many that the seement be not one again very high, and there seems to be no doubt about this Contest being the most popular of the year. May the bebt State vit. On Priday, 1st September, it was my privilege, to be the to attend the Annual Dinner of the Radio Society of Western Australia. A very well Radio Society of Western Australia. A very well be, and the Dinner Committee of the Society is to be, and the Dinner Committee of the Society is to be, and the Dinner Committee of the Society is to be, and the Dinner Committee of the Society is to be, and the Dinner Committee of the Society in training and a set of the Committee of the Society in training and a set of the Committee of the Society in training and a state of the Committee of the Society in the Soc ranks in V&6. Those present were taken back to the earlier days of radio in this State by the remin-iseness of Yank Goldmith (rac-PG). Bert Con-lete and the Conference of Yank Goldmith (rac-PG). Bert Con-GWII. Incidentally 6BC was the Secretary to the Society for just over 25 years, which must marely the Conference of the Conference of the Conference of the Society, and many Amsteers in this State belong to both the WLL, and the Radio Society. By the time this appears in print, the Country versus City QSO Day will be but a memory. The date is Sunday, 1 cft. September, and the venue 40 metres. Roll up one and all, but leave just a couple of Kefs venue for me, please!

PERSONALITIES

The B.D. CERTONAL TIES and the second of the

Construint your bank, Bill, even if it does mean more than an extension of the property of the very poor conditions prevailing. Once again, if you have any items for this column, let me know, I'll do the rest—Cheerio.

#### TASMANIA

Activity amounts the nonthern members for the members when the been relatively quiet with the control of the co

one servers of scribes which made the going much An additional member of the VLA. to graduate to full membership is Don Burle who, after a hold opposite the manager to most between A.O.G. and the present at the standard part of the process of the standard part process. The standard part process are standard within a few weeks another member will be present at the Sunday institute, proceed. See time to be present at the Sunday institute, proceed. See the Sunday institute of the standard part of the standard part of the sunday in the standard part of the sunday in the sun

Latering to THII one recent Sunday night and was envious of the f. h. signal which was reviewed at this end. Thought it might have been my receiver, but I will have to admit the transmission of the control of the con gotten he had taken the insert out; you beaut. For those not so financial and desirous of a radio receiver suggest you walk past a certain Ham's atore in Liverpool Street, any time after six p.m. Anything from a mantle receiver to a combination radiogram can be obtained, suggest you leave your ARSS out one night Max and see what happens. A new call to most is TSR which is operated by an Army Signal Club and is located at "Beaumaris." Noticed a DL1 amongst other foreign calls listed in the log. Several well-known Hams are in the Unit and so another "radio hungry club" has been

formed. A meeting was convened by 7AB with the pur-pose of forming a North Western Zone. This should be a great benefit in fostering Amstern activities and the state of the state of the state of the A.O.C.P. classes which should increase W.I.A. membrahip. Not of the Hans in this intended zone find it most difficult to attend inclined rape at Laucoston, owing to the long journey

necessary.

It was whispered Johnie Grsce has now decended from the remoteness of 144 Mc. to 40 metres and now contemplates building a receiver for this particular band. 78D now works exclusive DX in the form of a G on 40 and was received at 89 plus. Was a surprise until I found the "G" was marine mobile in port at Hobart.

mobile in port at Hobart.

As these noise have been prepared prior to combine the combined the Lecture will be given by Mr. Turnbull, continuing his previous lecture. This should prove inferenting as a panerous lecture. This should prove inferenting as a panerous wind in the checking of receivers. Discussion regarding future emergency network practice will be actually a support of the property of the combined o

#### NORTHERN ZONE

NORTHERN ZONE

Seems to me that has mouth. I tried to run of
the control of the control of the control
ing before it happened—obviously should have read
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material procedure use for vertex to the view in
the material procedure was very viil to received. A
way of before in the opposition, but very friendly
way of before in the opposition, but very friendly
opposition is seen, we carried by acclamation.

opposition it seems, was carried by acclamation.
Well, the 1956 R.D. Contest is now but a memory and what a memory. The pounding those poor banks took was just nobody's business. The contacts just rolled in one after the contest post rolled in one after the contest post rolled and are supported by the contest post and are supported by the contest perpetuates. Justing by the activity some really bumper scores will be turned in and the final result bound to be

close.

Activity apart from the R.D. Contest has been consciulated desultory during the month. TRQ has accommended to the content of the cont

piece. Was walking out Lyttleton Street way some days ago and idly speculating as to which QFH belonged to 7PP when lo and behold an amazing collection of arrays met my eye; beams of all sorts and sixes, feeders and all the trimmings. I stood and gazed and wondered if I were a signal which of the maze I would choose to get myself inside and

## CLASSIFIED ADS.

Advertisements will be accepted under this heading from the trade, and/or others who are actively en-gaged in trading as a livelihood. Rate: 15/- per inch.

WANTED TO BUY .- BENDIX FRE-QUENCY METERS BC221 or LM7 in good condition, any quantities. R. H. Cunningham Pty. Ltd., 62 Stanhope St., Malvern, Vic. (Phone UY 6274).

reach the ears of the operator. However, judging by the results, they do sort themselves out very well. This mouth we have lost to the zone the person we kope be heard from there. While not very active on the sir, it was very seldom a meeting took place that he did not attend and he will be missed by us all. Good luck in the new State. Nocl, and

pine that the old not already as an "state, North-and I'll have already as a second of the I'll have a second of I'll hav

#### CORRESPONDENCE

opinions expressed in these letters are the vidual opinions of the writer, and do not reservity coincide with those of the publishers.

CONTEST DESILITS Lascelles Ave., Beaumont, S.A. Editor "A.R.," Dear Sir.

EMITO "A.K.," Dear Sir,
I have read, with interest, the rules for the 1950
YK-ZL Contest, and could not help smiling at the
heavy print of Kune 14 requesting logs by 24th
November, 1950. Bart there a rule 15 missing requesting the Contest Committee to return results
by a definite date? the 1948 Contest-handled in ZL

by a definite date?

Well seriously, the 1948 Contest—handled in ZL

was not exactly encouraging in that respect; results being published in a rather sketchy manner
and only for YK-ZL districts about 12 mouths after
and only for YK-ZL districts about 12 mouths after
quicker on the job, but alsa, 12 mouths have
gone by and no sign of Contest results.

gone by and no sign of Context results.

Meet of the fun of the Context is lost with that lag in publishing the result, and an effort should be made to get the results in say three to six months. Of course it may be said that even the A.R.R.L. is struggling in spite of all their staff and facilities, but nevertheless the high scorers are given within three months.

Could not the best brains in hamdom be asked devise a new basis for Contests which simplifies ad reduces checking work?

and reduces checking work?

I romember an Editorial some time ago asking for views on Contests in general and while I am there is still a lot of interest in Contests, particularly in the big ones which have been established for some time and are will improved. If don't content to the content of the conten

l cannot conclude this letter without expressing my appreciation for the promptness with which the "A.R." arrives every mouth. In fact I am approach-ing the mail box with utmost confidence to look for it. If I could only find those test results! -F. G. HAAS, VK5FH.

[No one understands the problem of having Con-test results available within a reasonable period after a Contest than does Federal Executive, but the trouble is always, and will continue to be, that as a Contest Committee is formed to keep Contest as a Contest Committee is formed to keep Contest anters up to date. Federal Executive agree with tempt by the Victorian Council to obtain four-muly four-interested members with Contest exper-sionly four-interested members with Contest experonly four—interested memoers with Contest ex-ience who would take over the responsibilities putting "this contest business" on a sound foot to date no definite results have been achieved. M hands make light work of building a solid fra work of efficiency where chaos exists! Can yo work of elficiency where chaos exists Can you— and you—and you, do something NOW! We need four experienced contest members to form a Contest Committee in conformity with General Business Item No. 6 of the 1950 20th Annual Convention. Let's hear from you.—Federal Executive.]

#### BRAILLE MAGAZINE "Grand View," Cliff Drive, Katoomba.

Editor "A.R.," Dear Sir, In response to the paragraph which appeared in the June issue of "Amateur Radio," concerning the publication in the United States of a new

magazine in Braille, I wrote to the address given and have received in reply a letter, a copy of which is appended below. I have also forwarded a copy to the New South Wales Division of the Institute, and I would suggest that all concerned should give such publicity to this matter as is considered necessary throughout that all courses.
this matter as is considered necessar,
all Divisions.
The first issue of the magazine reterred to fa
the letter has not yet come to hand, but when
the letter has not yet come to the general
mature of its contents.
WILLIAM J. ZECH, VK2AOP.

Received your letter inquiring about the new Braille Magazine for Blind Amateurs today and very pleased to inform you about it. pleased to inform you about it.
It is called the "Braille Technical Press," and the first laser was the first laser with the first laser was the first laser with the first laser was the problem of the blind. Edited by Robert W. Gunderson, W22IO, executive offices, 980 Waring Avenue, New W22IO, executive offices, 980 Waring Avenue, 980 Waring A engineers and servicement anywhere in the world-We hope to reach all blind persons interested in or not. Of course it is a tremedous project and a costly one, but it is already off to a good start. After receiving your first copy please write to W210 After receiving your first copy please write to W210 After receiving your first copy please write to W210 Ileation, and that you read Braille. This is import-ant as those not answering will be dropped.

will you kindly inform the official organ of the W.I.A. that the publication went to press in March and that we are anxious to hear from all blind Amateurs, short wave listeners and servicemen who and that we are anxious to feur from an owner Amateurs, short wave listenors and servicemen who read Braille.

After receiving and reading the "B.T.P." we will welcome any suggestions or criticisms you wish to offer. I am serving on the board of directors and, with other blind Amsteurs and Indio Engineers, will set the policy of the magazine.

cers, will set the policy of the magazine.

At the present time I operate only on 10 metres, both phone and c.w. using a Halicrafters' HT9 transmitter running 100 watts and a three element bram, also using a national NC210 receiver with a cerect a beam for 20 this summer. I have part time employment at a metallurgy plant and have a guide day to take me back and forth from work.

ogg to take me back and forth from work.

It will be greatly appreciated M you will send along any information that you may have on blind people who may be interested in radio. You may will receive the magazine soon and enjoy it also, and that we may meet on the air some day, very 73.

—EVERETT A. ERICKSON, WINIM, No. 5 Oak-lands Heights, Bethel, Connecticut, U.S.A.

#### HAMADS 9d. per line, minimum 2/-.

Advertisements under this heading will only be accepted from institute Members who desire to dispose of equipment which is their own personal month, and remittance must accompany advertisement. Calculation of cost is based on an awrage of six words a line.

Dealers' Advertisements not accepted in this column.

FOR SALE .- Halicrafter SX18 Communication Receiver, fitted with noise silencer and voltage regulator. Complete with S meter and speaker. £40 or offer. O. L. Nestrom, 8 Burgan Street, Broadview, South Australia.

SELL.-Marconi Xmitter TNS2 50w. brand new with valves and 3.5 Mc. xtal. £20. Also TA12D Xmitter, excellent condition. Write R. Black, Central School, Liverpool, N.S.W.

WANTED .- AMR200 Components and Dust Covers for Receiver Coil Box and Power Supply. T. D. Hogan, 127 Oak-leigh Road, Carnegie, S.E.9, Victoria (Phone: UM 1732).

WANTED.—Good VCR140 C.R.T. Tubes. G. Millerd, 18 Ward Street, South Melbourne, Vic.

Amateur Radio, October, 1950

#### Heralding THE CREATEST AMATEUR COMMUNICATIONS RECEIVER OF ALL TIME . . . the



The "750" is a magnificent model-an entirely new ultra modern Amateur Bands Receiver with a host of outstanding features. It is the successor to the famous "640"—thousands of which are in use the world over, including the U.S.A.

Place Your order NOW with your Distributor

#### Featuring:-

Kc/s)

- · Coverage 480 Kc/s, to 30.5 Mc/s.
- 200:1 ratio dial reduction.
- · Modern miniature valves.
- Three watts of audio. Double detection superheterodyne (1,600 and 85
- Stabilised H.T. supply.
  - Provision for external S meter.
  - · Variable selectivity I.F's. · New and improved dial provides ample band
    - spread on Amateur Frequencies

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- - QUEENSLAND: CHANDLERS PTY. LTD., Corner Albert and Charlotte Street, Brisbane.
- WESTERN AUSTRALIA: CARLYLE & CO. LTD., Hay Street, Perth, and 397 Hannan Street, Kalgoorlie. ATKINS (W.A.) LTD., 894 Hay Street, Perth.
- SOUTH AUST.: GERARD & GOODMAN LTD., 192-196
  Rundle Street, Adelaide.
- TASMANIA: W. & G. GENDERS PTY. LTD., 53 Cameron Street, Launceston, and Liverpool Street, Hobart. LAWRENCE & HANSON (ELECTRICAL) PTY. LTD., 120
- . NOYES BROS. LTD., 36 Argyle Street, Hobart,

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